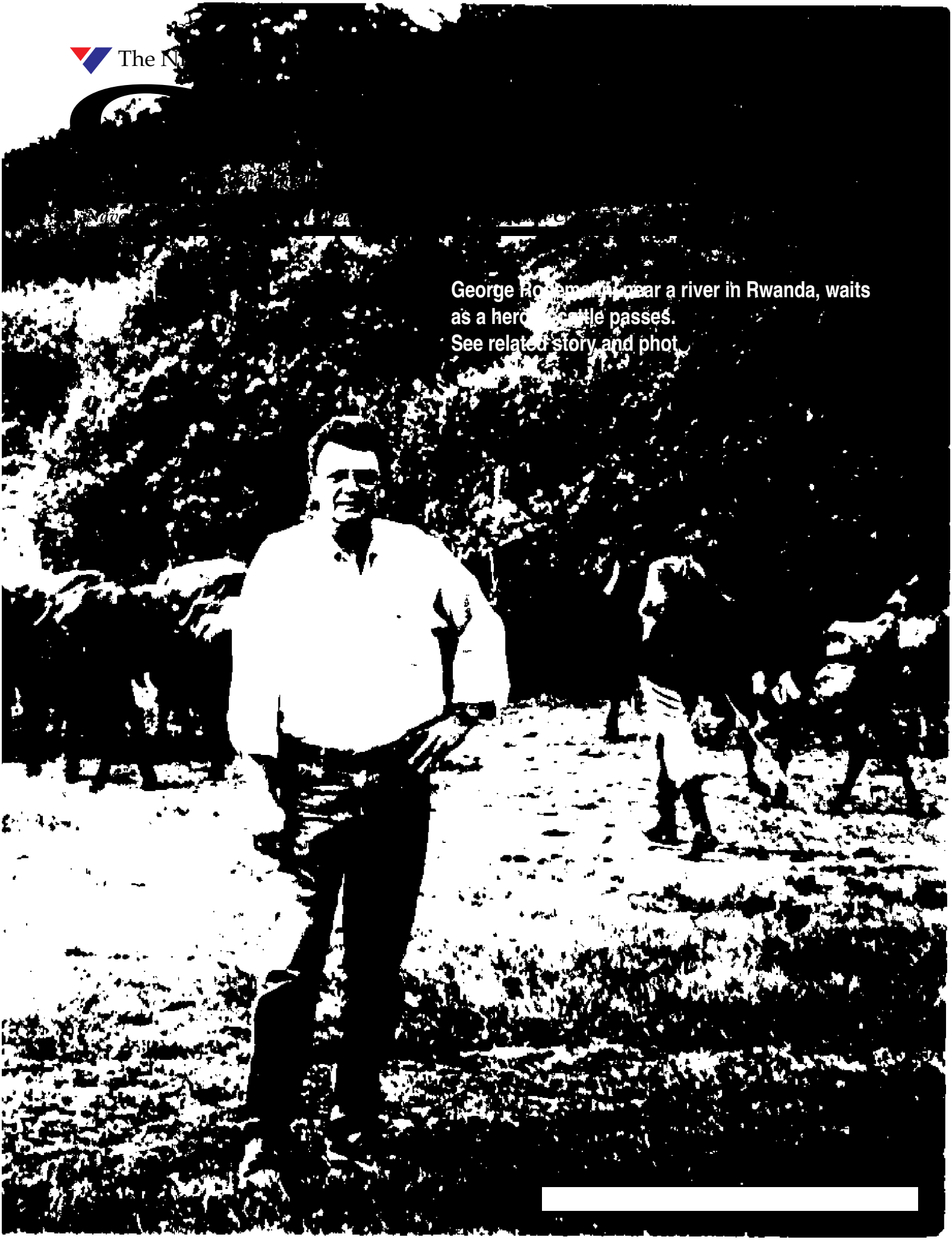

George Ro[illegible] near a river in Rwanda, waits as a hero[illegible]attle passes.
See related story and phot

Captain's Call

By Capt. Ron Polkowsky
Commanding Officer, NISE East

Here it is May, and while April showers are known to bring May flowers, they have abounded since March. March/May — po-tay-tow/po-taw-tow — seems like an ongoing emergence of buds and blossoms reflects the continuing success of meeting the challenge of opportunity. Our corporate ability to step forward with an ongoing commitment to excellence is not unlike that of Mother Nature. The opportunities are there for us all and we contribute every day to the success of the Navy team's ability to deliver knowledge to the fleet, through timely information transfer.

We celebrate Asian-Pacific American month in May to honor the contributions to our country of our brothers and sisters of Asian-Pacific Island descent. It is with sincere appreciation and pride that I can say, "Thank you from the entire NISE East family!"

On Mother's Day, we all reflected on the steadfast love and devotion our mothers have given us throughout the years. I know how very grateful I am for the love and support my mom has and always will provide me each and every day, no matter where she is or what she may be doing. Thanks, Mom! I love you.

Armed Forces Week, May 11-17, acknowledged the contributions of service members to our great nation. As part of a united Navy, civilian team, I am proud to be doing what I do, and even prouder to be doing it with all of you! May 26 is Memorial Day, a day to remember the men and women who gave their lives to ensure that we continue to have the freedom we have today. God bless each and every one, and God bless America!

For many of us, our sons and daughters are finishing another long school year (long for them, and probably too short for us). I know my son Matt finished his last exam as a college sophomore at the Univ. of South Carolina on May 6, and has moved home for the summer. My daughter Lisa graduates from high school on June 7. How proud I will be of her on her big day, as I was of her brother two years ago, just before I left Hawaii and joined the NISE East team. They grow up much too fast! Having both of them home for the summer is great, as it opens up many a chance to do more things together. Our families are important and we must always remember to spend with them the quality time they deserve.

As the summer approaches, a number of observations can be made among the NISE East locations:

- The St. Inigoes detachment is hard at work ensuring the NISE East transition from Webster Field is effected in late summer, well ahead of schedule. While a group of about a dozen folks moves to Naval Air Station Patuxent River to provide direct JMCIS command and control support for the P-3 submarine patrol aircraft, the rest will complete their move to Charleston. Thanks for your tremendous efforts in getting the job done!
- The Norfolk detachment continues along their path to make the transition to Charleston happen with the same success demonstrated by the St. Inigoes and Washington detachments. I sign orders almost daily as we deal with the challenges of relocating to Charleston.

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Code 50 earns 'Unit' Commendation...

everybody wins

Capt. Gary Graupmann (left, upper photograph), SPAWAR PMW 173, presented the Navy's Meritorious Unit Commendation award to Capt. James Hoffman (head of the Communications Systems Dept.) and 34 engineers, technicians, logisticians, program analysts, and managers. In the bottom photo, Don Bailey (far right), NISE East's executive director, and some of the proud recipients display the Meritorious Unit Commendation flag. See page 4 for related story.

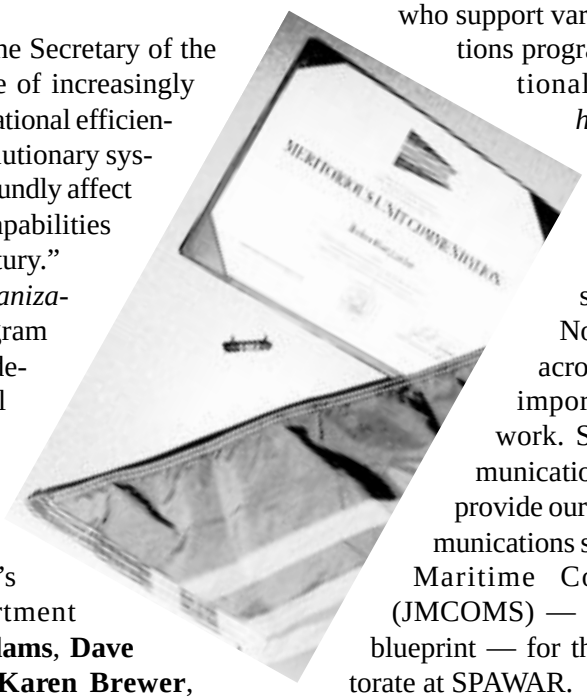
PMW 173 'team' players recognized

By Tom Adams
Integrated Program and Business Office
Code 50B

A proud select group of NISE East employees received the Navy's Meritorious Unit Commendation at a special ceremony on April 29. Captain Gary Graupmann, SPAWAR's submarine communications program manager (PMW 173), presented this coveted award to our 34 recipients — engineers, technicians, logisticians, program analysts, and managers.

These individuals were cited by the Secretary of the Navy for having "met the challenge of increasingly scarce resources by initiating organizational efficiencies, technical innovations, and revolutionary systems delivery concepts that will profoundly affect the performance and warfighting capabilities of submarines well into the 21st Century."

Traditionally reserved for an *organizational* unit, the Navy agreed the program office and the members of its team deserved this award for their exceptional service from May 1994 through September 1996.



The team comprises specified NRaD and NUWC employees and the following folks in NISE East's Communications Systems Department (code 50): **Kathy Adams**, **Tom Adams**, **Dave Bednarczyk**, **Carol Blackstock**, **Karen Brewer**, **Lawrence Bridegam**, **Bart Brock**, **Sheila Dawson**, **Charlie Deal**, **Jim Debraggio**, **John Dyar**, **Dave Freeman**, **Ken Galloway**, **Dean Glace**, **Jack Guzzardo**, **Tom Horton**, **Jim Hucks**, **Dave Jackson**, **John Keathley**, **Bob Kraft**, **Bob Leap**, **Al Lyman**, **Joe Manzi**, **Don Mitchum**, **Jackie Oltmann**, **Jim Ory**, **Pat Owens**, **Gene Pomatto**, **Carl Reeves**, **George Rodemann**, **Mike Thomas**, **Ollie Wendelin**, **Dan Williams**, and **Mike Wolff** (retired).

Only recently emerging from the cloak worn in its role as the *silent service*, our submarine fleet found itself playing catch-up as the rest of the fleet rapidly incorporated technologies available in today's communications revolution. As is all too apparent to us in this business, combatants which are not interoperable in all applicable mission scenarios simply do not have a place in the Navy's future. And so great effort was put forth to deliver the communications support systems necessary to provide our submarines with the tactical and strategic connectivity they require.

Code 50 reorganized last year to provide more effective technical and logistics interaction among those who support various submarine communications programs. Although no organizational structure is perfect, this *hybrid-matrix* arrangement allows us to blend our program support and provide a more systemic delivery of our products and services to our customers. Not only does this yield benefits across the board, it is especially important for our SUBCOMMS work. SPAWAR's submarine communications master plan is tailored to provide our submarine force with a communications system structured by the Joint Maritime Communications Strategy (JMCOMS) — the Navy's communication blueprint — for the cognizant program directorate at SPAWAR.

Over the past three years, our work for the submarine communications program office has encompassed the entire range of ISEA functions. In the midst of the transition from legacy systems to those that are COTS/GOTS/NDI, the realization of tomorrow's submarine communications systems isn't achieved overnight, but by carefully supporting a prudent evolution of technological insertions which result in common, open, affordable, interoperable communication systems.

We are proud to be a member of this acclaimed team and look forward to the opportunity of helping the Navy continue to deliver engineering and logistics services required by our submarine force.

Acquisition reform: *a new way to do business*

"Providing and conducting training has been, and remains today, a critical supervisory function. It has become even more important today as we vastly change the way we do business with a reduced workforce."

— The Honorable Paul Kaminski
Under Secretary of Defense for Acquisition and Technology

By Cindy Sims
Corporate Learning
Code 0B2

Under Secretary of Defense for Acquisition and Technology Paul Kaminski designated March 19 as DoD's second Acquisition Reform Day. Assistant Secretary of theNavy for Research, Development and Acquisition John Douglass stated in his Dec. 18, 1996, memorandum to the Department of Navy, "Each and every one of us is responsible and accountable for the success of this day, and the success of acquisition reform."

Building on the positive precedent of last May's Acquisition Reform Day, Corporate Learning (code 0B2) sponsored Acquisition Reform Day 2 (ARD 2) at our new conference center. Employees at the Norfolk detachment attended ARD 2 (sponsored by Norfolk's Fleet and Industrial Supply Center) at the Pavilion Towers in Virginia Beach, Va.; while the folks at our St. Inigoes detachment viewed taped sessions of ARD 2 in Charleston.

Capt. Polkowsky's opening remarks addressed an audience of 177 NISE East personnel attending the one-day meeting. He said, "Think about the changes with us today in terms of what we can do next with acquisition. We are invited to step out of the box and do things with acquisition reform in mind ... we're invited, within legal bounds, to push the envelope of getting capability to the warfighter quicker than we've ever done before. We are teamed with industry very well. We are constantly looking how to get the best value in the quickest turnaround time with high quality out to the customer. Look at the acquisition reform capability today — they are not abilities to cut corners, but they are the ability to allow us the flexibility to do things faster and be more responsive to the customer."

Don Bailey, NISE East's executive director, discussed the history of acquisition and its reform during his 39 years of government service. Acquisition reform, he said, is "how we buy things smartly." He also talked about the Defense Acquisition Workforce Improvement Act (DAWIA) and how it relates to the engineers in the field.

Holding to the theme: *Teaming — the Catalyst for Making Acquisition Reform Initiatives the Norm* — three teams formed to discuss reform topics and encourage interaction. One team which addressed acquisition, education and training issues, consisted of panel members **James Tate** and **Jim Bryan** from code 0B2 who discussed DAWIA certification, its cost, and the forthcoming reduction in DAWIA personnel. Capt. Polkowsky highlighted the fact that DAWIA certifications are tied to the billet, not the individual. Continuing education requirements of 40 hours per fiscal year drew attention from those already certified. **Linda Blanton**, head of acquisition policy, discussed the *Simplified Acquisition Procedures Course* recently approved to be taught at NISE East. **Gary Gardner**, head of the Environmental Test Branch, spoke in detail on specifications and standards, performance based statement of work, cost as an independent variable, and integrated product systems.

A second team, led by **William Paggi**, deputy for the Contracting Div., discussed simplified acquisition pro-

Continued on page 23

Teaming: 'THE' word of the 90s

By Lynda Silvers
Chronicle Editor

No longer do we depend entirely upon ourselves to get the job done. With the downsizing of the Navy and corporate America, in general, teaming has become the word of the 90s — a word that requires reaching out across department lines, across command lines, and yes, even beyond DoD to help each other.

Developed by the NCCOSC board of directors, the NCCOSC Commander's Teaming and Initiative awards were established last summer. The teaming award is designed to encourage and recognize cross-organizational teaming, while the initiative award recognizes exceptional individual contributions resulting from personal initiative and innovation.

On March 4, Capt. Tony Lengerich, commander of NCCOSC, presented three teaming and two initiative awards during a special video teleconference at the regular two-down meeting in Charleston.

The NCCOSC Commanders' Teaming Award was presented to:

☛ The C^{4}I Installation Team, comprises members from NISE East (**Howard Abston**, **Michael Johnson**, **Douglas Mueller**, **Cmdr. William Rodriguez**, and **Lt. Cmdr. Christopher Vagts**) and NRaD (**John Bentley**, **Lt. Kevin Peterson**, **James Rodenkirch**, **Susan Senese**, and **Glenn Yee**). As a team, they were accountable to SPAWAR for all claimancy-wide C^{4}I installations. Working side-by-side, they developed and implemented an installation process which is designed to ensure installations are completed in a similar manner by each organization.

☛ The Joint Training, Analysis and Simulation Center System Engineering Team, comprising members from NISE East (**Richard Barfield**, **Tom Calogrides**, **Elmer Evasco**, **Carol Gartman**, **David Gerrek**, **Elston Goldsmith**, **David Goodridge**, **Pam Hanna-Hawver**, **Paul Hill**, **Ken Howerton**, **Henry Hughes**, **John Massie**, **James Pierce**, **Penny Powell**, **James Strudwick**, and **Jason Swearingen**) and NRaD (**Susan Anderson**, **John Chevrier**, **Gregory Knapp**, **Laura Knight**, **Claude Norton**, **John Salzmann**, and **Ann Todd**). Through the combined efforts of this team, the power and potential of the integrated product team concept was demonstrated for use across NCCOSC organizational boundaries. By taking advantage of the research and developmental capabilities of NRaD members and the in-service engineering talents of NISE East members, a complex system for training operational forces was designed, procured, installed, tested, operated, and is being maintained.

☛ The Theodore Roosevelt Battle Group Advanced Digital Network System Team, comprising members from NISE East (**Kathy Adams**, **Francis Allston**, **Eric Kohl**, **Bill Sanders**, **Paul Strazdus**,

Continued on page 9

Left, Capt. Tony Lengerich, NCCOSC commander, and Carl Reeves, head of the Integrated Program and Business Office, code 50B.

At right, Jim Rodenkirch, NRaD code 60F; Cmdr. Will Rodriguez, officer-in-charge of NISE East Detachment, Norfolk; Mike Johnson, NISE East code 0X/SPAWAR 05F2; Lt. Cmdr. Christopher Vagts, NISE East code 0X1; and Glen Yee, NRaD C4I Superintendent.

Left, Capt. Lengerich, Don Vonbehren, Eric Kohl, and Francis Allston, of the Network Architecture Branch (code 524).

NISE East hosts 'first' Navy network intrusion detection training

By Vince Van Houten
Certification, Test and Evaluation Branch
Code 723

Over 20 military and civilian personnel from several Navy and Marine Corps commands recently completed the first-ever Navy Network Intrusion Detection Training course at NISE East. Sponsored by the SPAWAR Information Systems Security Program Office (PMW 161), the course was presented by the Network Intrusion Detection (NID) software developers and Lawrence Livermore National Laboratories (LLNL) computer scientists, in cooperation with the Department of Energy and the Defense Information Systems Agency.

During the three-day class, the LLNL scientists examined basic network intrusion techniques used over the internet on a daily basis. The anti-intrusion system, known in the Navy as the automated security incident measurement (ASIM) system, is managed by the Fleet Information Warfare Center and is currently deployed by the NISE East Information Warfare-Protect Systems Engineering Division (code 72). This system, used to track and capture the Argentinean hacker known as "El Griton" (the Screamer), serves as a sensor which detects hackers who try to penetrate computer system resources. One of the attendees, Naval Criminal Investigative Service Agent Pete Garza, tracked and eventually caught the hacker penetrating NCCOSC computer systems.

"As a result of insightful leadership, visionary strategic planning, and prudent management, the NISE East integrated product team (IPT) consistently provided access to high tech products and superb service to our customers," said Capt. Ron Polkowsky during the NID demonstration.

Need information security products or services?

'One-stop'

shopping now available

By Vince Van Houten
Certification, Test and Evaluation Branch
Code 723

The Certification, Test and Evaluation Branch (code 723) is building quite a clientele in cyberspace. Originally tasked to create an internet web site (http://infosec.nosc.mil/) for the SPAWAR INFOSEC program office, code 723 has ultimately become the Navy's one-stop-shop for information security products and services.

The INFOSEC on-line services team (led by Vincent Van Houten) has had considerable exposure since going "on the air" in August 1995. The site currently receives more than 130,000 visits a month and has achieved NetGuide's Gold Excellence award, which places it in the top 15 percent of all the web sites. The impact of this single asset to the U.S. Navy's information systems security program has been immense and should have everlasting effects.

With the recent attacks on several high profile government agency web sites, protection is becoming a number-one priority.

The *NISE guys* were recently asked by the Oceanographer's Office (CNO N096) to manage their World Wide Web site as well (http://oceanographer.navy.mil/). Rear Adm. Paul Edward Tobin, Jr., the current oceanographer of the Navy, is utilizing this invaluable resource to announce the Navy's American Student Ship Naming Contest, as authorized by Secretary of the Navy John Dalton.

In an unusual departure from tradition, the U.S. Navy is inviting American students nationwide in grades K-12 to choose a name for one of its new ships. The contest is also being covered by the National Geographic Society. Scheduled for launch in late 1998, the Navy's newest oceanographic survey ship (TAGS 60 class) is under construction at Halter Marine Shipyard in Mississippi.

If you would like more details on information systems security and internet protection, please contact the Information Warfare-Protect Systems Engineering Division (code 72) at 803-974-5400.

Teaming

Continued from page 6

and **Don VonBehren**) and NRaD (**Terri Alexander**, **Sandra Bentley**, **Ken Casey**, **Lt. Jerry Dismuke**, **Debra Gookin**, **David Guitas**, **Tom Ogden**, **James Rhode**, and **John Wilson**). Members of this team engineered and installed leading edge technology networking communications equipment on ships in the TRBG and at supporting naval computer and telecommunications area master stations. The ADNS provides a more effective means of communicating for battle group personnel which will enable them to pass files and data from ship to ship.

The NCCOSC Commander's Initiative Awards were presented to:

- **Christopher Hansen** of NRaD for developing and implementing the scaleable high performance local area network, the Navy's first shipboard asynchronous transfer mode LAN.
- **Carl Reeves** of NISE East who personally initiated, developed and coordinated a teaming concept for use within the Communications Systems Department. His innovative ideas resulted in viable plans to meet Base Realignment and Closure Commission laws of 1993 and 1995. In addition, he developed and put in place a number of integrated product teams which provide technical support to major programs.

Each civilian recipient received a cash award and a letter of commendation. Military recipients received a letter of commendation and up to four days of special liberty.

We congratulate each and every one of you for a job well done!

'virtual laboratory'

concept demonstrated at NISE East

By Lt. Dilip B. Ghate
UHF SATCOM Branch,
Code 541

In a coordinated effort between the Communications Systems Dept. (code 50), Command and Control Systems Dept. (code 60), and the Information Technology Operations Branch (code 0913), NISE East recently demonstrated the "Virtual Laboratory" concept to observers from SPAWAR PMW-171 (JMCIS program office) and PMW-176 (JMCOMS program office). Using existing landline connections, real-time joint maritime communications information systems (JMCIS) data from NISE East Detachment Norfolk was passed to the automated digital network system (ADNS) and radio frequency (RF) satellite communications (SATCOM) laboratories in Charleston. ADNS is part of the joint maritime communications strategy (JMCOMS).

Background

The current trend towards increasingly complicated command, control, computer, communications, and intelligence (C^4I) technologies has emphasized the need for the comprehensive systems engineering and testing of new systems prior to their deployment on afloat and shore units. The fiscal realities of smaller budgets and shorter acquisition timeframes have magnified this need. The virtual laboratory (a collection of dispersed systems and devices which work together as if they were co-located) is the result of NISE East's successful coordination of its various laboratories. The JMCOMS-JMCIS connectivity demonstrated the virtual lab concept.

JMCIS and JMCOMS represent two major C^4I initiatives which assist our sailors and ships in accessing comprehensive real-time tactical information via bandwidth-efficient communications systems. JMCIS processes various tactical C^2 information and displays it in a sensible graphical format while providing a user-friendly interface on a workstation. Currently, ADNS interfaces with various SATCOM systems; however, an ADNS system can only communicate with another ADNS system. Both ADNS and JMCIS, undergoing revisions as necessary, are now being deployed on fleet units.

Connectivity Overview

Since the JMCIS lab (Tactical Command and Control Systems Branch, code 633) is at the St. Juliens Creek Annex in Norfolk, Va., the first step was to make that data avail-

able to the ADNS lab (Network Architecture Branch, code 524) in Charleston, S.C. While it is possible to use other data, the virtual lab aims to use as many actual ship or shore components as possible to realistically emulate operational conditions. The connection services between Norfolk and Charleston were provided by code 0913.

Once acquired in the ADNS lab, the JMCIS data had to be transmitted and received by RF equipment to monitor additional ADNS functions. This involved connecting the ADNS lab in building 3113 with the SATCOM lab in building 3637 at Charleston Naval Weapons Station, Southside. Currently the SATCOM lab houses extensive UHF SATCOM systems (UHF SATCOM Branch, code 541) and provides access to the adjoining EHF trailer (EHF SATCOM Branch, code 543). From the SATCOM facility, multiple lines were configured to connect with the TD-1271 (UHF DAMA) and USC-38 (EHF) terminals. Connectivity with the SATCOM lab resulted from a joint effort between codes 0913, 524, 541, and 543.

Functional Overview

The JMCIS data, encrypted with a Network Encryption System (NES) prior to transmission from Norfolk, was fed into ADNS node number one, and subsequently, to the SATCOM lab. The data was transmitted and received by a second set of RF terminal equipment before being passed to node number two in the ADNS lab where the data was decrypted and displayed on a workstation. The Link 2+ equipment was used to multiplex the various signals onto the shared fiber connection between buildings.

The underlying connectivity between Norfolk, Charleston, and the various labs was transparent to the testing, so a ship-ship or ship-shore connection was simulated. The JMCIS workstation in Norfolk, together with ADNS node number one and one set of RF SATCOM equipment, form one unit while the other node, workstation and SATCOM gear form another.

By linking the various labs together, more comprehensive testing and design work is possible. This virtual lab asset is able to support a multitude of current and new projects such as the recently awarded LPD 17 contract and the new construction aircraft carrier program (CVN-76)

Conclusion

The JMCOMS-JMCIS connection demonstrated the viability of the virtual lab and how it can be used to integrate various systems and applications for thorough systems testing. In addition to the connection discussed above, NAVMACS II data was also recently integrated in a similar manner via the ADNS lab.

Because of the BRAC decision to consolidate the east coast engineering centers, Charleston now has an active SHF system and more C^4I labs. By linking the various labs together, more comprehensive testing and design work is possible. This virtual lab asset is able to support a multitude of current and new projects such as the recently awarded LPD-17 contract and the new construction aircraft carrier program (CVN 76).

Quinata is 1997 'Sailor of the Year'

Congratulations to ET1(SW) **John W. Quinata**, code 335/Norfolk, for being selected as this year's NISE East Sailor of the Year and representing NISE East during the SPAWAR Sailor of the Year competition.

Petty Officer Quinata, who works in the Fleet Installation Branch in Norfolk installing JMCIS suites aboard various fleet units, has consistently performed his demanding duties in an exemplary and highly professional manner.

Further, he is the Norfolk detachment's Pass Liaison Representative to PSD Portsmouth and is the detachment's Adopt-a-School program coordinator with Cradock Middle School.

Petty Officer Quinata's total dedication to excellence and devotion to duty have truly set standards for all sailors to emulate. His exceptional initiative, and loyal dedication to duty have reflected great credit upon himself, NISE East and the United States Navy.

Once again, congratulations to Petty Officer Quinata!

420 years of experience lost in four months

As 14 individuals recently embarked on another phase of their lives — retirement — NISE East loses nearly 420 years of experience. These people will truly be missed throughout NISE East, not only for their knowledge and expertise, but for their very presence and the valuable contributions they made in the daily task of keeping this country safe and secure.

George R. Ameye, a DT-III technician in the Integration Branch, code 333 at the St. Inigoes detachment, retired on Jan. 31 after working 42 years and eight months — a combination of 21 years active military duty in the U.S. Navy, and the rest in civil service.

A retired chief aviation structure mechanic, George began his civilian career in 1975 as a sheet metal mechanic at the St. Inigoes detachment when it was the Naval Electronics Systems Test and Evaluation Detachment.

George is a NISE East plank owner. He lives in St. Inigoes, Md.

Joseph Martin Popp, a DP-IV manager in code 36 at the Norfolk detachment, retired Feb. 3 after 36 years of service (three of those years served on active duty in the U.S. Navy).

Joe's civilian career began in 1964 when he accepted a job as an electronic engineer at the Bureau of Ships in Norfolk, Va. He was also in the Naval Reserve Intelligence Program, retiring as a reserve captain in 1991.

In 1974, Joe was selected to head the Fleet Communications Div. at NAVELEX Portsmouth, and later became the department head.

Joe is a NISE East plank owner. He lives in Virginia Beach, Va.

Leonard Robert Tant, a DP-III technical specialist in the Special Exploitation Systems Branch, code 713, in Charleston, retired on Feb. 3 after 32 years and seven months of service.

Leonard joined the Army in 1959. Four years later he began his civil service career as an electronics mechanic apprentice at the former Charleston Naval Shipyard.

In 1985, Leonard transferred to the former NAVELEX Charleston. On board when the engineering centers were consolidated to form NISE East, Leonard is also a plank owner.

Leonard lives in Walterboro, S.C.

James Lloyd Strobel, a DP-IV manager, head of the Intelligence Systems Engineering Div., code 73 in Charleston, retired March 1 after 32 years of dedicated service to the U.S. Navy.

Jim began his civil service career in 1965 at NISE East's predecessor NAVELEX Charleston, and is a NISE East plank owner.

He lives in Ridgeville, S.C.

Raleigh G. Starnes, at DT-III technician in the High Frequency Communications Branch, code 531, in Charleston, retired March 3 after 37 years and two months of combined military (19 years, 11 months) and civilian (17 years, two months) service.

Raleigh began his civil service career in 1979 at NAVELEX Charleston.

He lives in Ladson, S.C.

Leo W. VanBellen, a technical specialist in the Systems Engineering and Test Branch, code 614 at the St. Inigoes detachment, retired March 3 after 25 years and five months of combined military (one year, 11 months) and civilian (23 years, five months) service.

Leo began his civil service career in 1973. He joined one of NISE East's predecessors, NESEA St. Inigoes, Md., in 1984.

He lives in California, Md.

Donald A. Hall, a DT-II technician in the NTR section of the Module Maintenance Facility, code 6232 in Charleston, retired March 15 after 30 years and four months combined military (eight years) and civilian (22 years, four months) service. Unfortunately, Donald retired on disability due to severe back problems.

After serving eight years in the U.S. Navy,

Donald began his civil service career in 1974 at the Naval Supply Center. He transferred to the former Charleston Naval Shipyard in 1979 where he completed the electronic mechanic apprentice program. When the Module Maintenance Facility merged with NISE East in October 1994, Donald was on board.

He lives in Summerville, S.C.

Paul W. DeLange, a DT-III technician in the Submarine Exploitation Systems Branch, code 711 at the Norfolk detachment, retired April 1 after 34 years of combined military (20 years) and civilian (14 years, seven months) service.

As a retired Navy senior chief whose specialty was submarine ESM, it was only natural for Paul to join the NAVELEX Portsmouth team in 1982 where he continued his work in submarines. On board when the east coast engineering centers merged, Paul is a NISE East plank owner.

With his recent certification as a master gardener, Paul doesn't plan to sit idle during his retirement years. Looking forward to doing some traveling, he is also actively involved in church activities and committees, the Lion's Club, and playing golf.

Paul lives in Norfolk, Va.

Stephen R. Woolard, a DT-II technician in the Broadcast Communications Branch, code 535 at the Norfolk detachment, retired April 11 after 18 years, five months of service to the U.S. Navy.

Steve began his civil service career in 1978. He came to the NISE East predecessor at St. Inigoes in 1985, where he retired the first time in 1992.

He lives in Chesapeake, Va.

ACCS(SW) David E. Ferguson of the Program Planning and Engineering Branch, code 313, transferred to the Fleet Reserve on April 18 after 25 years of faithful and outstanding service to our country and the U.S. Navy. At ceremonies held in the conference center, Capt. Polkowsky elaborated on the senior chief's illustrious career and what his value has meant, not only to NISE East, its customers and the Navy, but to the sailors stationed here whom he leaves behind.

Senior Chief Ferguson and his wife Sandi plan to reside in North Charleston, S.C.

Lt. Edward A. Faxlanger of the Communications Systems Dept., code 50, retired from the U.S. Navy on May 3 after 20 years of faithful and dedicated service to his country. Capt. Polkowsky was the guest speaker and cited Lt. Faxlanger on his outstanding career and his accomplishments in the engineering duty officer community.

Lt. Faxlanger reported to NISE East in April 1995 after the closing of the Charleston Naval Shipyard. He and his wife Diane plan to reside in Texas.

Robert G. Pillow, a DP-III engineer in the Program Planning and Engineering Branch, code 313, in Charleston, retired April 25 after 17 years of service. He retired on disability due to severe neck and back problems.

Bob began his civil service career in 1979 at NAVELEX Charleston and is a NISE East plank owner. He lives in Goose Creek, S.C.

Jack Humphries, Jr., a DP-IV manager, deputy for Ship Communications, code 50D at the Norfolk detachment, retired April 30 after serving 35 years and three months of faithful service to the U.S. government.

An employee of one of NISE East's earliest predecessors — INDMAN Five in Portsmouth, Va. — Jack has journeyed through all of the name changes and consolidations, becoming a deputy of the Communications Systems Dept. of NISE East. He is a NAVELEX Portsmouth and a NISE East plank owner.

During his retirement ceremony, Jack was presented the Meritorious Civilian Service Award for his superlative technical operations and engineering management in support of the fleet for more than 35 years. He was also cited for his vision of technical excellence which has allowed SPAWAR, NAVELEX Portsmouth, and subsequently, NISE East, to become vital members of the Navy's C4I community.

Jack lives in Virginia Beach, Va.

Philip Freeman DeBerry, a DT-III technician in the Shore Direction Finding Systems Branch, code 715, in Charleston, retired May 2 after 33 years, one month of federal service.

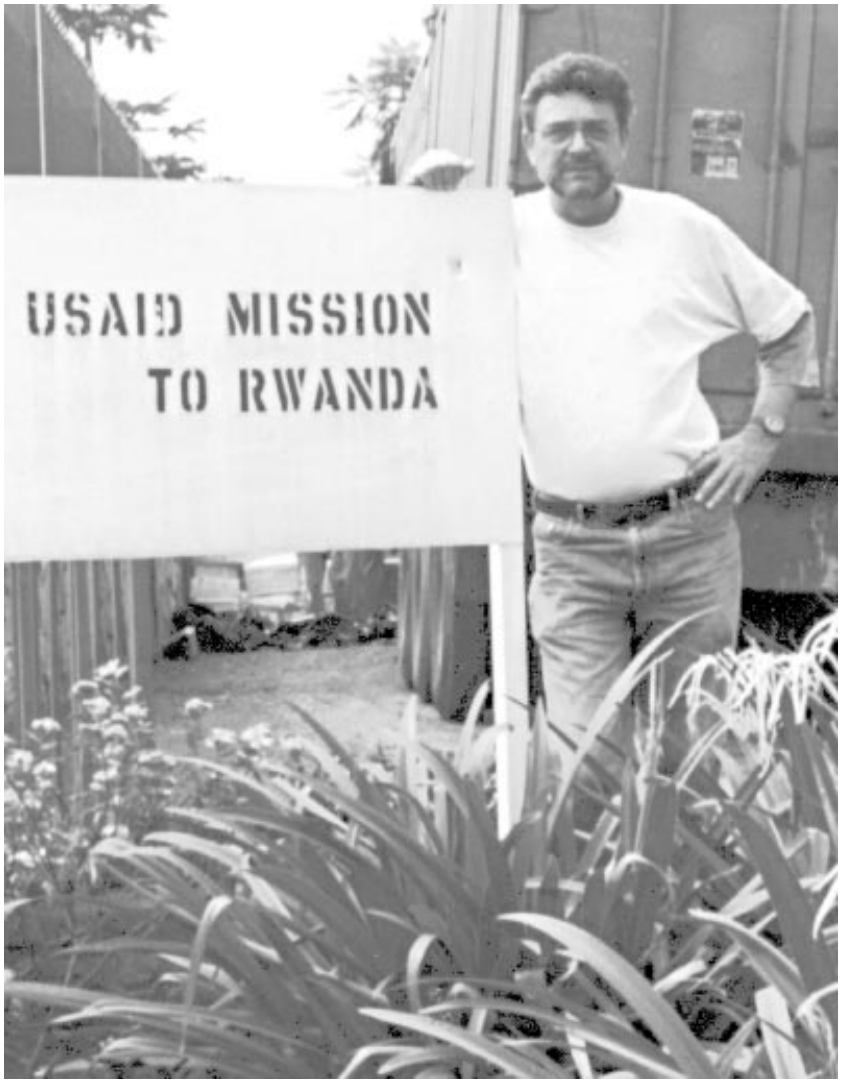
Phil began his civil service career at NAVELEX Charleston in 1965 and is a NISE East plank owner.

He lives in Charleston, S.C.

To each and every one of these retirees, we say thank you for a job well done. And to each, your competence and your dependability have served us well. In this ever-changing world, the loss of your experience and ability will definitely be felt throughout NISE East, the SPAWAR community and the entire U.S. Navy. However, your long years of loyal service to the Navy have truly earned you this retirement — Fair winds, and following seas!

Feeding the hungry...

a joint humanitarian effort



George Rodemann is a technician in the Submarine Communications Branch (code 532). Not exactly the line of work one would associate with a humanitarian relief mission. But recently, when NISE East was asked to help with the installation of communications in an emergency relief mission to Rwanda, George volunteered for the job.

By Lynda Silvers
Chronicle Editor

In April 1994, extremist Hutus in Rwanda killed more than 500,000 fellow Rwandans, virtually all of them Tutsi. Fearing retaliation for the genocide of the Tutsis, more than a million Rwandan Hutus fled to neighboring Zaire, where they stayed until civil war in eastern Zaire forced them back to Rwanda in November and December 1996.

Above, relief workers tend to equipment used to purify drinking water for the refugees.

At right, George Rodeman climbs a ladder to the top of the American Embassy where he helped other relief workers remove an antenna so a new one could be installed.

As the refugees came streaming back home — as many as 12,000 per hour during the peak return period — the United States Agency for International Development (USAID) sent a team of humanitarian experts to the region to develop a plan to provide for the refugees' emergency needs. That's when USAID called upon NISE East to install communications which would allow relief workers to talk to each other and to determine where they would need to set up the next camp.

"It seemed like a good idea to help with the humanitarian relief by setting up communications, allowing for the tracking of refugees returning to Zaire so they could get food and water," George said. "Nothing elaborate, or secret, or anything like that. Just simple radios allowing them to relay information on where food and water were stored and what direction the refugees were headed."

More than a million Rwandan refugees walk with everything they own stacked on their head for up to 500 miles to return to their homeland.

More than a million refugees, most with their entire possessions stacked on their heads, walked for hundreds of miles trying to return to their homeland. They faced an arduous trek and poor health and living conditions. Relief workers raced against time to set up camps at various intervals to provide these people with temporary makeshift shelter, food, water, and medical care.

"Many of the children are orphans," George said, "and one of our main concerns is making sure the children get nourishment."

While George did not actually help hand out food and water, he was often in the camps with the people. "They were so friendly," George said. "The children were wonderful, and they were all so grateful for the little bit we were able to do for them."

Four drivers who knew the area were hired to drive the team around. "They were paid $1.25 per hour (the average wage there) which they were more than happy to receive," George said. "The family of one of our drivers had all been killed during the genocide, and he was taking care of his brother's children who had survived."

Rwandan refugees wait patiently at a relief camp to receive their ration of food and water, and to rest. Relief workers keep track of the progress of the refugee, and set up temporary camps along the way.

When asked if he was afraid for his safety, George said, "When I first arrived there and saw all the bullet holes in the airport and the military walking around with AK-47s, I admit I was a little apprehensive. And on the nights when I would take the drivers home, I had to drive down narrow dirt roads totally overwhelmed with people, and I had to find my way back to the hotel. That was a little scary. You just can't tell whether you're in friendly territory or not. But after several trips, I didn't worry about it as much."

George stayed in Rwanda for six weeks, but the project he worked on is not complete. It is an ongoing effort. "The whole project is to try to prevent death and to supply the people with food, water, and shelter, and to reduce suffering," George said. "It was a wonderful and interesting experience," George said. "The countryside is gorgeous, and at 4,000 feet above sea level, the weather was quite comfortable. And the people — well, it made my soul feel good to be able to help."

Most of the relief team was subsequently sent back to the U.S. after rebel attacks on relief workers, a priest, and other expatriates. However, relief workers have since returned to the region to continue their efforts to help the refugees. And once again, George has volunteered to help.

A relief worker talks to Rwandan children as they draw water from a local well. Much of the water is contaminated, and part of the relief effort is to purify drinking water.

Antenna programming optimizes

performance and safety

By Mark Scully
EHF SATCOM
Branch, Code 543

Mark Scully (right) and Tim Lewis on board the CG 55 Leyte Gulf in Mayport, Fla., look through optical theodolites at the ship's features.

The extremely high frequency sat ellite communication (AN/USC-38(V)2 EHF SATCOM) system can selectively inhibit radiation from either antenna as a result of hazards of electromagnetic radiation to personnel, hazards of electromagnetic radiation to ordnance, electromagnetic interference zones, or ship's structural interferences. This can occur at any combination of elevation and azimuth angles by programming the terminal at the time of the installation. The adaptation software used in the programming is a result of zone or interference data defined during the optical blockage survey. To determine the blockage zones, precision measurements are taken from each antenna boresight position to an obstruction. The requisite field of view is a visual angle of twenty degrees below the horizontal plane to zenith of all ships' superstructures.

Each ship's optical blockage file is constructed with *zones* comprising data *points*

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Ruth Watford...

an 'ambassador' of good will

Do you and your teenager speak the same language? Are you even from the same planet? If you have ever lived with a teenager, then you know it is a constant learning experience. How do you cross that language barrier? Or get through that generation gap?

In the Watford home, they learned to overcome language and cultural differences, they learned to appreciate those differences, and they have made a difference in the lives of many teenagers around the world.

By Lynda Silvers
Chronicle Editor

Ruth Watford, an accounting technician in the financial branch (code 122), her husband Ray, and daughter Andie, have been a host family to foreign exchange students for the past several years. Each year, a new teenager joins their family. "They usually speak some English," Ruth said, "but we still have to learn to actually communicate."

Foreign exchange students Beate Jacobson (left) and Henriette Karlangen (right), both from Norway, pose with Andie Watford and Minnie Mouse at Disney World.

Not only do Ruth and Ray open their hearts and their home, but they are also involved in the business end of the EF Foundation for Foreign Study. They are the local representatives for this non-profit organization which brings citizens of the world together through high school student exchange.

"Several years ago we had friends who hosted an exchange student, saw how much fun they had, and decided to give it a try ourselves. Our first exchange student was from Australia," Ruth said. "Andie, our youngest daughter, was 15 at the time. It was a wonderful experience for all of us. The one thing we've learned through the years is that teenagers are teenagers no matter what part of the world they come from. They are basically all the same, yet unique in their own way," Ruth said. "The first thing they want to do when they come to this country is to buy a pair of Levis. And supermarkets fascinate them. They think everything in America is big," Ruth said. "We get to learn all about where they come from and to share our culture with them."

When a friend of the family recently remarked about one of the exchange students, "She talks funny," Ruth's six-year old grandson quickly said, "No she doesn't, she's from Norway." Isn't it wonderful how children readily adapt to our differences?

By participating in an educational exchange program, host families get the chance to learn about another culture while sharing American ways with a teenager from abroad. The majority of students do not get credit for the studies they are required to take in this country — English, American government, and U.S. history. And since they essentially spend an extra year in high school, most of the students are very committed to learning as much as they can.

"While the student is with us," Ruth said, "they are treated just like part of the family, with regular chores." They are also involved in all family trips and outings, where they are often joined by Ruth and Ray's eldest daughter Nicole Wilkerson, her husband David and son Jordan.

While the majority of students have positive experiences with their host families, Ruth said there have been a few horror stories. So as part of her responsibility as a coordinator, she stays in close contact with the schools the various students attend to keep track of their progress both in school and in the home. If a student needs to be moved to another host family, the exchange foundation pays for their moving expenses.

After 30 years with Bell South, Ray plans to retire in June. Andie will be off to Newberry College in the fall. She hopes to become a veterinarian. And so, this is the last year the Watfords plan to host a foreign exchange student. Life in the Watford household will be different, to say the least. Ruth said, "We'd like to find out what the empty nest syndrome is all about. Besides, two years ago we bought a 90-year old house and maybe now we will have time to fix it up."

Ruth's heart will always be with the program. She hopes other families will get involved with an educational exchange program where you not only can provide room, board and a loving environment, but you can become part of a once in a lifetime experience for a child. You can make a difference. Ruth said, "This is a great way to promote global peace, and it's fun!"

Andie Watford (center) and Foreign exchange students "stand" in both North and South Carolina at Carowinds, a popular spot for the Watfords and their "extended family."

Bill Sanders,

our own 'man about town'

By Lynda Silvers
Chronicle Editor

Have an interest in old Charles' Towne's history? What about the Civil War? Need a tour guide?

When Bill Sanders is not on the job as head of the EHF SATCOM Branch (code 543), you can find him in downtown Charleston — at least every other Sunday afternoon, that is.

Bill is a volunteer tour guide at the Edmondston-Alston house on Charleston's High Battery where he tells the stories and the rich history of its owners, a prominent merchant and a well-established Lowcountry rice planter.

Bill admits that it was his wife Betty Jean who got him interested in becoming a tour guide. A native of Georgetown, S.C., (just a little piece up the road), Betty Jean majored in history at the College of Charleston. During a senior project, she worked with Middleton Place Foundation on a research project. Five years ago, when Middleton Place Foundation took over the Edmonston-Alston House they hired Betty Jean as the staff historian.

Bill said, "I was down there quite a bit with my wife, and I really enjoyed it — the history, the house, and the tourists. Besides, it is the farthest thing from my regular job. It helps me to relax."

And so, he took the plunge — studied the history of the house and the town — and became a full-fledged volunteer tour guide, a job he has enjoyed for the past three years. "I get to meet a lot of very interesting people," Bill said, "including celebrities who are in town doing movie shoots."

With a keen interest in the Civil War, this is right up his alley — Bill is thrilled that in the past few years about a hundred letters written during the Civil War were discovered in the house. An indirect descendent of the Alston family still owns the home and currently lives on the third floor of the residence (circa 1825), one of the city's most splendid examples of early nineteenth-century commitment to elegance, style, and comfort.

"This house has been in many movies," Bill said, "including Scarlett, the sequel to Gone With the Wind."

A native of Scranton, Pa., Bill spent seven years in the Navy, most of the time aboard the *USS Holland*. And it was the Navy that brought Bill to Charleston in 1964 where he met and married Betty Jean. They both went to Spain where Bill was stationed for two tours of duty, and returned to Charleston in 1970. Bill said, "I like the history of Charleston." But I think we all probably know the real reason he stayed — once Charleston gets in your blood, you just can't get it out — you have to come back (besides, his wife is from here!).

He possesses the patience required to build model ships, the kind that are extremely detailed and built to scale. The kind that are laboriously pieced together one "plank" at a time.

And speaking of the Navy, shipbuilding is also in Bill's blood. He possesses the patience required to build model ships, the kind that are extremely detailed and built to scale. The kind that are laboriously pieced together one "plank" at a time. He is currently working on a replica of the *USS Constellation.*

As if being a full-time engineer, a volunteer tour guide, and a shipbuilder hobbiest weren't enough, Bill is also the president of the Lowcountry Chapter of AFCEA (Armed Forces Communications and Electronics Association). Oh, did I tell you, he is also working on his master's degree in computer engineering at the University of South Carolina? Whew!

All of this does not leave much free time, does it? To which Bill replied, "The majority of my time is 'free!' I'm a volunteer."

After presiding over a recent meeting of the Lowcountry chapter of AFCEA, Bill Sanders (right) and Capt. Ron Polkowsky (left) give Cmdr. Don Wilson, JWID '97 Office, a tour of the NISE East facilities. They are shown standing in front of the new engineering center.

A NISE child's experience

Children who attended the "Bring Your Child to Work Day" activities, gathered around the tree they planted in front of the new engineering center in celebration of Earth Day.

By Nancy Tant
Corporate Information
Code 0B1

This year's Bring Your Child to Work Day was coupled with an Earth Day celebration to create "A Child's Experience" at NISE East. On April 3, over 60 children of employee sponsors reveled in a variety of special events planned to both incite and delight them.

Upon registering at the command conference center, each child received a personalized event "badge" with special logo. After the event coordinator, **Rondi Akers** of Corporate Planning (code 0B3), explained the agenda, the children received a hearty welcome from our executive director, Don Bailey.

As part of a computer demonstration, the children exhibited keen interest as they surfed the internet while viewing a giant screen. **Larry Welcher** (code 0B3) aided the net search as children chose preferred topics ranging from comets to alligators. Speaking of alligators, "Charlie's Place," although not

Continued on next page

Continued from previous page

an official agenda item, was a definite attraction for our young guests and will likely be revisited at every opportunity.

Using the technology of video teleconferencing and the assistance of **Bob Fleming** (code 723) the children introduced themselves to one another from adjacent rooms in building 3113. Clearly, there are budding stars in our midst!

Next was a stop at the new engineering center where **Ronnie Wall** (code 0A3) arranged for the children to be briefed by F. Brian Smith from Clemson University Cooperative Extension Service, on how to plant and care for a tree. With their newly acquired tree-planting expertise in tow, it was now time to plant a tree in celebration of Earth Day. Fortunately, David Daily and crew from Davis Landscape of Hilton Head were on hand to raise the 20-foot live oak tree and its mammoth root ball from its side into its earthen home where it will permanently grace the driveway of our grand new facility. Several of the children assisted in the first ground-watering of the tree (and the curb, and their shoes, and some adjacent bystanders). Seriously, this was a well-orchestrated demonstration of proper tree planting and proved educational to the adults as well as the children. Each child was given a cypress seedling with instructions for its planting and care. The seedlings were donated by Westvaco.

The final stop on the tour was the NISE East Air Traffic Control lab. **Nathan Baird** (code 313) explained to the audience (which included his daughters Lauren and Jena) how NISE East works to control airplanes within a 60-mile radius. Oh, the joy of hundreds of bright blinking lights, buttons to push and telephone receivers. Remember... there were over 60 children in this room!

Robust appetites were now ripe for the return to the conference center where some of the parents joined in for lunch. What could be better after surfing, television stardom, planting and air controlling than a perfect pizza buffet? Absolutely nothing!

As mementos of their visit, the children were presented pens, certificates and booklets containing customized calendars and note sheets.

Judging from the enthusiastic inquisitions and gleeful responses, the intent of this celebration was indeed met. This success would not have been possible without the many volunteers who hosted and chaperoned this NISE Child's Experience. Hopefully, there will be repeat attendees at next year's event so they may see how "their" tree and Charlie have grown.

Acquisition reform

Continued from page 5

cedures and blanket purchase agreements (BPA). This team's discussion resulted in the Contracting Division's decision to put a statement of work (SOW) format and the SPAWAR Instruction 4200.26A on the local electronic bulletin board as guidance for those who prepare proposal packages. Mr. Paggi explained the enormous impact acquisition reform has on the simplified acquisition procedures.

The third team, led by **William McDowell**, head of the Contracting Div., focused on establishing threshold money amounts at which contracting would go back to the sponsor for discussion. Mr. McDowell emphasized that NISE East has participated in the concept of *teaming* for several years and that integrated product teams are a way of life for the Contracts Div. He also said that when we move into the new engineering center, the Contracts Div. will co-locate with technical code personnel to further advance the impetus of acquisition reform.

David Berry of Naval Information Systems Management Center, addressing the entire acquisition reform audience, discussed the use of BPAs as a simplified method of fulfilling anticipated, repetitive needs for supplies or services; and ITEC, the acquisition strategy to promote the use of commercial-based information, technology and practices.

The acquisition community embraced acquisition reform as a way to develop cost effective ways of doing business. New methods bring positive change with results often widely applicable and beneficial to other programs. A *Change Through Exchange* conference, which kicked off Acquisition Reform Week (held March 17 at Crystal City Forum in Virginia), provided visibility and promoted the exchange of ideas.

On March 20, John Douglass (ASN(RD&A)) led a virtual Town Hall meeting to affirm his personal commitment to acquisition reform. Forty senior acquisition leaders attended the Town Hall, which originated from the Naval Station in Anacostia, Va., and was broadcast via satellite and the Defense Network with simultaneous dialog on the Internet. Senior leaders were both speakers and audience, rotating shifts to directly respond to questions.

May is Asian/Pacific American Heritage Month

"United: One Vision—One Mission—One Voice."

'Appearance' standards required for new building

Under construction since october 1994, building 3147, the new home of NISE East corporate offices, is now ready for occupancy. The 256,000 sq. ft. engineering center is the first custom-designed C^{4}I engineering center for the Navy and will serve as the focal point for serving DoD and federal government customers well into the 21st century.

We've waited in anticipation — some in fear; some in agony; and some in ecstacy. Some were close to the project, and watched the building take shape brick by brick. Others had to depend on hearsay about what was happening. Wherever you are, and whatever you are feeling at this moment, the wait is over. The time has come. The first occupants of the new engineering center, bldg. 3147, are packing their belongings and moving in.

It's a magnificent, state-of-the art building, and we should be very proud to call it home. It's quite evident that our quality of life is held in high esteem.

Now, it's our turn. It is our responsibility to take care of this building. To help us maintain a clean corporate image, an appearance standards committee was formed. Periodically, the committee will issue guidelines and policies for life in the new building.

Two guidelines have been issued thus far — furniture and storage. For your convenience they are repeated below:

FURNITURE STANDARDS

✓ The standard for individual cubicles was initially established when we occupied bldg. 3113 and later applied to bldg. 3112. Knoll Systems furniture will be exclusively used in all cubicles with partition height not to exceed 65 inches. Common areas for printers, copiers, FAXS and safes will make use of Knoll Systems work surfaces as required. For these common areas, light gray, five-drawer letter-size cabinets will be provided to allow for high density file storage. The standard cubicle furniture in each office cubicle consists of the following or its equivalent: Work surface, one two-drawer mobile pedestal, one two-drawer lateral file, two flip-top cabinets, one book shelf, two task lights (one located under each flip-top file cabinet), and one keyboard tray.

Variations to this basic complement are due to existing inventory re-use, or building layout constraints. Every effort has been made to provide you with the furniture of the basic standards.

✓ Branch head offices will receive medium cherry contemporary wood furniture. The standard complement of furniture consists of: Peninsula desk, bridge (connects peninsula desk to credenza), credenza, hutch (with doors), task light, keyboard platform, and two visitor chairs.

✓ Division head offices will receive medium cherry contemporary wood furniture. The standard complement

of furniture consists of: Executive desk, credenza, two-drawer lateral file, bookcase, task light, keyboard tray, and two visitor chairs.

✓ After the move, if individuals have a requirement to augment their office or cubicle with additional furniture, they may do so provided the same style, color, etc., is used. However, no 4-or 5-foot vertical files will be allowed in individual cubicles. In no case shall an individual remove furniture from one cubicle or office to increase the complement of another.

✓ Individuals will be offered the choice of receiving a new desk chair or keeping their existing chair. There are some existing desk chairs that do not meet the NAVOSH, ANSI and NIOSH standards. Employees using chairs with only four legs or chairs without proper ergonomic adjustments, will automatically have them replaced. Existing chairs that are acceptable to move into the new Engineering Center shall meet the minimum ergonomic requirements. Plans are to replace all worn or tattered chairs. If you feel that you must keep your favorite chair, you may approach the Appearance Standards Committee to request special consideration. Point of contact is **Maxine Rudd** (e-mail address is: ruddmax at niseeast.nosc.mil).

STORAGE STANDARDS

✓ The new engineering center is designed to carry us into the 21st Century. Storage space for paper files is extremely limited. Each department, division, branch and individual is responsible for reducing the amount of stored paper. One option is illustrated by code 73 who is scanning the NE-70 contracts division team files into electronic format. In preparation for the move, we should all begin consolidating and archiving our files.

✓ Consumable supplies and forms will be controlled and issued from a central location in the new engineering center, eliminating storage requirements within each department. More details will be forthcoming on the stocking and issuing of consumable supplies and forms.

✓ Areas have been designated in each Department to provide centralized file storage. Storage consists of lateral files along corridors and five-drawer letter-size cabinets consistent with established furniture standards. Information on the location, type, number and use of common files can be obtained from each department's space coordinator.

Departmental space coordinators are: 00/0A, **Bob Kappler**/**Julie Klein**; 0B, **Glenn Jeffries**; 09, **David Hirschhorn**; 10, **Will Johnson**; 30, **Janice Amell**; 50, **Georgia Lack**; 60, **Walter Kraus**; and 70, **Maxine Rudd**.

The next issue to be addressed by the Appearance Standards Committee is office decor. As these guidelines/policies are established and finalized, they will be forwarded to all. Your support and cooperation in this effort to maintain a neat, professional atmosphere is greatly appreciated.

The Honorable Floyd Spence (second from left), U.S. Representative, 2nd Congressional District of S.C., toured NISE East facilities April 18.
On tour with Congressman Spence were (pictured from left) Bill Spaulding, head of Corporate Communications; Bob von Allmen, head of the Surveillance and Systems Engineering Dept.; Capt. Polkowsky; Don Bailey; Ward Miller, field representative for Congressman Spence; and Glenn Jeffries, deputy, Corporate Communications/public affairs officer.

Captain's Call

Continued from page 2

We have come a long way in executing the BRAC transition, and we still have a way to go. We have, and always will be, committed to success as we "Just do it!"

I spent April 28-29 at our office in Mayport, Fla., with our hard working teammates there, and visited the Battle Group commander staff and ships on the waterfront. I watched with pride as the *USS John F. Kennedy* and a part of her Battle Group departed on deployment. I reflected on the knowledge that she is going to sea with the best electronics capability the Navy can provide and that NISE East, in consonance with our teammates across the Space and Naval Warfare Systems Command, worked hard to provide that capability.

The fourth quarter of the fiscal year is a month away, and our ability to pay the attention required to effectively manage carryover, maintain end strength, and execute direct work years is commendable. Our Navy Working Capital Fund (formerly Defense Business Operating Fund (DBOF)), A-11 budget, which affects our budget for fiscal year 1999, has just about been set. We have continued our focused efforts to minimize our overhead expenses and as good stewards of the taxpayer, have worked extremely hard to keep our rates as low as possible. Your collective team has certainly made a difference in building a solid fiscal foundation for the future.

The move into the NISE East engineering center has begun! The phased plan continues to see a movement of all those spread out in North Charleston — buildings 198 and 4600, the Summit and Rivergate, as well as relocation of many already at Southside — over the next three to four months. The facilities team, under the orchestration of Wayne Pannullo, has brought home a safe and secure modern engineering center to be the core of the NISE East engineering campus. The capabilities are many and the opportunities endless! Well done Wayne, and welcome aboard NISE East!

The ground is fertile, and we are plowing new ground every day. Each and every day of the year is an opportunity to bud and an opportunity to blossom. We continue to bond together in our enthusiastic commitment to do the right things. I am most proud of the word WE and the strength of synergy in working together. A short course in human relations reflects that very well:

The six most important words:
"I admit I made a mistake."

The five most important words:
"You did a good job."

The four most important words:
"What is your opinion."

The three most important words:
"If you please."

The two most important words:
"Thank you."

The one most important word:
"We."

The least important word: "I."

With families getting together for the summer and the Memorial Day weekend coming up to start the summer vacation season, I urge you all to take extra caution to ensure we stay safe. Increased traffic will frequent the highways and the picnics of summer give us plenty of opportunity to relax and unwind. PLEASE remember not to drink and drive, and keep highway speeds down. Look around you at your family members and remind yourself how precious they are. I know you all join me in caring about each other's health and welfare, and look forward to hearing the many reflections on our happy summer endeavors. To the NISE East family and to friends and families everywhere, please be safe!

Keep doing the right things to accomplish what needs to be done. Our sailors depend on you all hours of every day. You ALL make a difference, and I am proud to be on your team. Keep chargin'!

Premium rates to drop for military

WASHINGTON — The cost of Servicemember's Group Life Insurance will drop from nine cents per $1,000 to 8.5 cents, beginning July 1.

Officials with DoD's compensation office said the monthly premium on a $200,000 policy will drop from $18 to $17. Fred Pang, assistant secretary of defense for force management policy, announced the reduction April 29.

Officials credit the decrease to low death rates in the U.S. military and more efficient administrative operations.

Antenna programming

Continued from page 17

outlining a particular topside structure (e.g., a ship's bridge house could represent a box). Each facet or zone of the box is determined by corner points of the structure. Two synchronized theodolites are trained to a common point and the physical location is calculated by triangulation. This process is repeated until the collected points adequately represent a part of the structure. Some *repeat* blockage structures, such as antennas and weapons systems, require one point for locational purposes only (the geometry of their silhouette has been previously recorded). As collected, the data is entered into a specialized computer aided design (CAD) program. A ship's three-dimensional profile is developed after approximately 150-200 points. The CAD software now has the capability of creating a color bitmap printout representing antenna sphere of operation. The hardcopy highlights all the blockage zones and is used as an overlay for studying the net coverage of the dual antenna system. This graphic representation is especially useful in determining potential blockages and optimizing antenna locations. Future top-side arrangement changes can be assessed in the pre-planning phase.

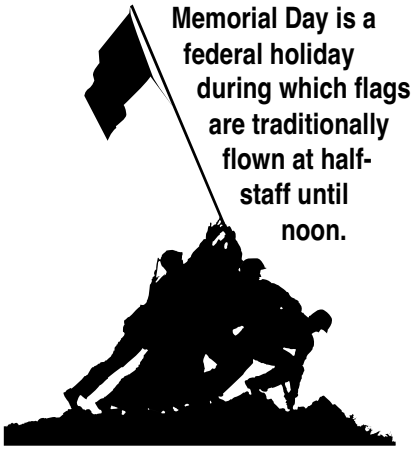
Once the ship's blockage profile is complete, the data is processed into the antenna's adaptation software file — a tabulation of minute sectors (i.e., azimuth versus elevation segments) of the antenna look angles. A code (assigned to each sector) signifies if it is permissible for the antenna to radiate, *handoff* to another antenna, or terminate operation. The end result for collecting this exact detail is increasing the net operational coverage for the antennas. Small areas between structures, once unusable, can now be mapped and utilized for antenna transmission. Because every ship receiving the EHF SATCOM system has an optical blockage survey, class or builder's deviations can be addressed and incorporated into the terminal.

In operation, the programmed EHF SATCOM system can anticipate communication interruptions caused by impending physical blockages. A transmission *handoff* is then executed to maintain the satellite link. Due to sea conditions and the rapid changes in a ship's altitude, accidental radiation exposure to ship's personnel, transmission loss, or electromagnetic interference is prevented.

The NISE East procedure, based on combat alignment theory, was developed using specialized 3-D CAD software, optical surveying equipment and team coordination. The procedure ensures accuracy for the installation, alignment and programming phase of the antennas. Within the past 18 months, EHF SATCOM systems using adaptation blockage data collected by NISE East have been installed on 25 ships (aircraft carriers, amphibious assault cruiser, and destroyer classes). On all platforms, foundations were verified for accuracy in flatness and alignment to ship's weapons control reference plane and centerline. Where systems were installed, the optical team assisted the installation process in antenna foundation's location and alignment to ships' references. Likewise, similar surveys have been accomplished on six shore EHF SATCOM AN/USC-38(V)3 sites throughout the world.

Memorial Day May 26, 1997

A day reserved for prayer and ceremonies showing respect for American war veterans, especially those who died in the conflicts. The observance dates back to the Civil War, with the first documented celebration taking place at Waterloo, N.Y., on May 5, 1865. Today, Memorial Day is a federal holiday during which flags are traditionally flown at half-staff until noon.



The NISE East Chronicle

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Our Mission is to provide electronics material support: Conduct engineering studies, analyses, design and test support; install, upgrade, modify, restore, and remove hardware and software; develop logistics requirements and plans; support and execute programs and projects; and develop training requirements, plans, and materials.

Our Vision for the future is to be the activity of choice by our customers, the innovator of new technologies and systems, an ambassador and business partner in the community, the leader in electronic engineering facilities, the provider of a safe and nurturing work place, and the premier organization for new business strategies.

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